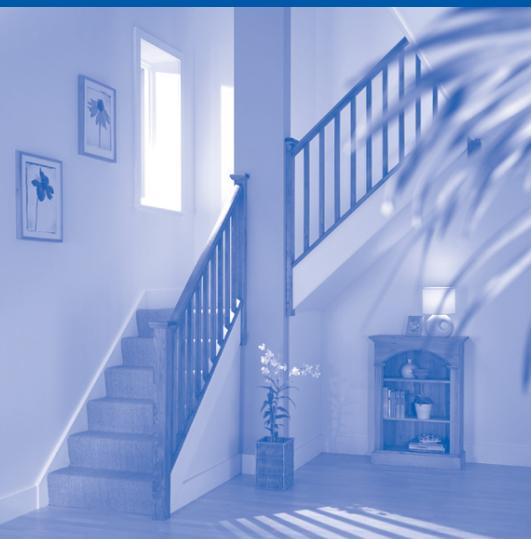




STAIRPARTS

Whether building a new staircase or replacing the old balustrading, Wickes Stairparts will enable you to complete the work quickly and easily. The finished staircase will bring style and character to your hall and add value to your home. Stairparts are available in top quality North American Hemlock,

Chrome, Brushed Nickel and Oak. The range of products includes spindles, handrails, baserails, newel posts and a comprehensive range of fixing components. The balustrading can be constructed without the need for specialist joinery skills.



KEEP INFORMED

- Look for other Good Idea Leaflets that could help you with your current project.
- Check that your Good Idea Leaflets are kept up to date. Leaflets are regularly changed to reflect product changes so keep an eye on issue dates.
- If you would like to be put on our mailing list for the Wickes catalogue, call:

0845 274 1000

- Visit our website
wickes.co.uk

BEFORE YOU START

The following instructions are designed to help you meet safety regulations laid down under current Building Regulations.

The most important rules about safety state that the height of the handrail on the stairs and landing should not be less than 900mm (840mm in Scotland), and that a 100mm ball should not be able to pass between spindles at any point.

STAIR TERMINOLOGY

- | | |
|------------|---|
| Rake | The slope of the staircase. |
| Tread | The top or horizontal surface of a step. |
| Riser | The board forming the vertical face of a step. |
| String | The wide timber on each side of the treads and risers. One string is generally fixed to the wall and the other 'open' side supports the base rail and spindles. |
| Pitch Line | If a straight edge is laid on the treads with the base touching the tread nosings the line of the bottom edge is called the pitch line. Fig.1. |

TOOLS REQUIRED

You will already have most of the tools needed to fit new stairparts. The following are the most useful:-

- Electric Drill - for pilot holes for fixings and other jobs.
- Panel saw - for cutting base and handrails.
- Tenon saw - for cutting spindles and fillets.
- Pin hammer - for panel pin fixings.
- Adjustable Bevel - this is a simple device for measuring and marking angles. One of the few tools you may not have, but worth buying.
- A selection of drills - HSS and flat bits are needed for the fasteners.
- A selection of spanners and sockets will be needed for fixing the fasteners. (See individual fastener packs).

ACCESSORIES

- 250ml Wood adhesive (240-035)
- Panel Pins
- Glasspaper (fine grade)

PROJECT RANGE

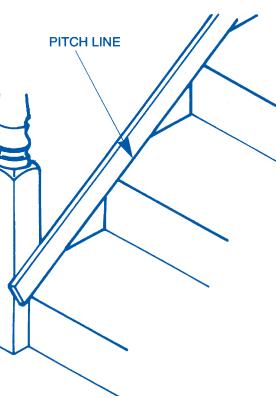
Product Code	Product Description
	32mm RANGE
128-400	Contemporary Spindle 32 x 900mm
120-403	Spindle Hemlock 32 x 900mm
129-403	Spindle Primed 32 x 900mm
165-445	Fluted Hemlock Spindle
120-401	Handrail 32mm Hemlock 2.4m
120-404	Baserail 32mm Hemlock 2.4m
120-402	Handrail 32mm Hemlock 3.6m
120-405	Baserail 32mm Hemlock 3.6m
165-500	Spindle Oak Chamfered 32 x 900mm Pk1
165-507	Spindle Oak Chamfered 32 x 900mm Pk10
165-499	Spindle Oak Traditional 32 x 900mm Pk1
165-506	Spindle Oak Traditional 32 x 900mm Pk10
	41mm RANGE
128-401	Contemporary Spindle 41 x 900mm
120-168	Colonial Hemlock Spindle 41 x 900mm
120-178	Spindle Hemlock 41 x 900mm
120-182	Handrail 41mm Hemlock 2.4m
120-183	Baserail 41mm Hemlock 2.4m
120-180	Handrail 41mm Hemlock 3.6m
120-179	Baserail 41mm Hemlock 3.6m
	ACCESSORIES
128-402	Contemporary Newel Post 1.22m
128-403	Contemporary Newel Post 1.48m
128-404	Half Contemporary Newel Post 1.22m
128-405	Contemporary Newel Post Cap
120-406	Newel Post & Ball & Base 1.22m
120-407	Newel Post & Ball & Base 1.22m
120-408	Half Newel Post & Ball & Base 1.22m
120-360	Newel Fastening System
120-363	Newel Post & Handrail Fastener
120-364	Horizontal Rail Fastener
165-476	Axxys Hemlock Round Handrail 2.4m
165-477	Axxys Hemlock Round Handrail 3.6m
190-582	Handrail 40mm Chrome 1.8m
190-581	Handrail 40mm Chrome 2.4m
190-580	Handrail 40mm Chrome 3.6m
190-589	Straight Post Bracket Chrome Finish
190-587	Shallow End Cap Chrome Finish
190-588	Connecting Wall Brackets Chrome Finish
190-590	Covered Socket Handrail Chrome Finish
190-585	90° Chrome Finish Elbow
190-584	135° Chrome Finish Elbow
190-583	Wall Bracket Chrome Finish
160-232	Handrail 40mm Brushed Nickel 1.8m
160-229	Handrail 40mm Brushed Nickel 2.4m
160-228	Handrail 40mm Brushed Nickel 3.6m
160-239	Straight Post Bracket Brushed Nickel
160-237	Shallow End Cap Brushed Nickel
160-240	Covered Socket Handrail Brushed Nickel
160-238	Connecting Wall Bracket Brushed Nickel
160-235	90° Brushed Nickel Elbow
160-234	135° Brushed Nickel Elbow
160-233	Wall Bracket Brushed Nickel
165-473	Oak Handrail 2.4m
165-474	Oak Handrail 3.6m
165-504	Oak Baserail 32 x 2.4m
165-505	Oak Baserail 32 x 3.6m
165-501	Oak Contemporary Newel Post 1.5m
165-502	Oak Traditional Newel Post 1.5m
165-503	Oak Contemporary Newel Cap

SPINDLES

To calculate how many you need on the rake, count the number of treads between newels. Allow two spindles per tread and one per tread where there is a cut-out for a newel post.

To calculate the number of landing spindles required, measure the horizontal distance in mm then divide by 112. For example, if the horizontal distance is 896mm, divide

Fig.1

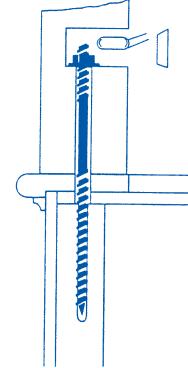


by 112 which gives a figure of 8. This is the number of spindles needed. Round part numbers upwards.

FIXING NEWEL POSTS

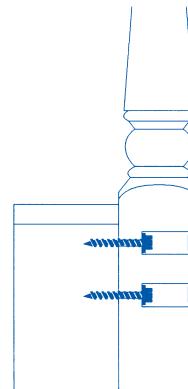
When an existing newel post is removed note how it has been fixed. New newel posts must be located in the same position and can be fitted using either the Newel Fastening kit or the Newel Post and Handrail Fastener depending upon circumstances. Fig.2 and 3 show how

Fig.2



these fasteners are used with much more detailed fixing instructions being provided on the packs. Both types of fastener can be used together for added strength. It is essential that newel posts are totally rigid when fixed and fixings must always be

Fig.3



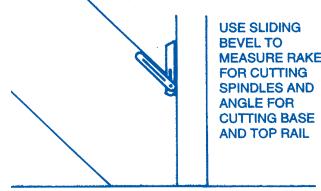
made into substantial timbers.

Check that the newel post is vertical.

BASERAIL

The next stage is to fit the Baserail. This must be cut to the angle of the stairs. To find the angle of the stairs either make a template using cardboard or use an

Fig.4



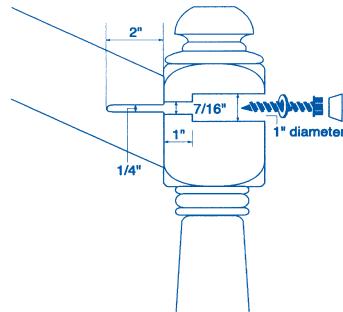
adjustable bevel. Fig.4.

Measure and cut both ends of the baserail. Take time to ensure a clean and correct cut. Drill and countersink holes, then screw and glue the baserail to the string. Use at least 1 1/4" screws at maximum 300mm centres.

HANDRAIL

The handrail should be cut to the same angle as the baserail. To connect the handrail to the newel posts on the staircase use the Newel Post and Handrail Fasteners

Fig.5



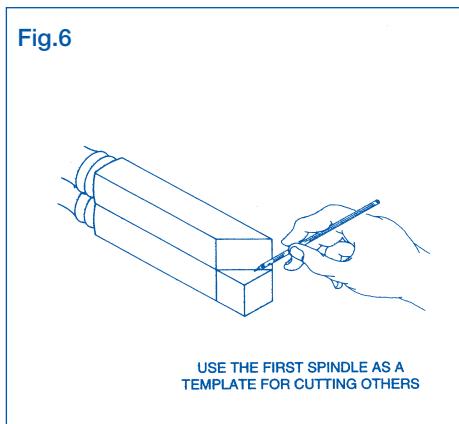
as shown in Fig.5. Fuller instructions will be found on the back of the fittings pack. It is essential to position the handrail at the minimum height specified at the start of this leaflet. At the bottom of the rail ensure that the fixing is made as in Fig.5, into solid handrail timber. At the top end of the rail lower the position of the fixing in relation to the newel post to again ensure that the fixing goes into solid handrail timber and does not break out of the top of the rail. The handrail and baserail should be parallel from bottom to top.

SPINDLES & FILLETS

The spindles should now be fitted. To give the required length and angle of cut, the first spindle should be measured by standing it against the stair base and top rails and accurately marking.

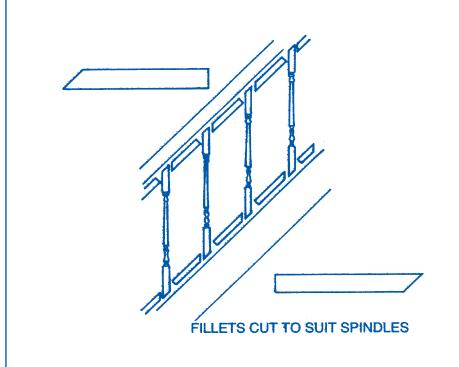
The first spindle can be used as a template to mark and cut further spindles, checking that it is accurate all the way up the stairs.

Fig.6



The spindles are spaced using fillets. Spindles can be equally spaced up the rake with the exception of the first and last fillet, which must be shortened to suit due to the pattern of the newel post. Having adjusted the first and last fillets as required, fit spindles into position, cross pin and glue. Also pin fillets top and bottom. **Fig.7.**

Fig.7



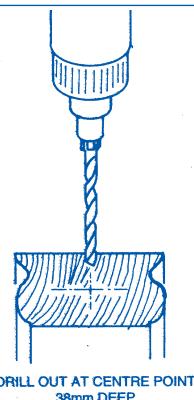
Note. Maximum horizontal distance between square faces of spindles on rake is 90mm.

LANDING BALUSTRADE

Where a landing returns on itself (i.e. 180°) it is necessary to use a quarter turn. It may be necessary or desirable to trim one leg of the quarter turn so that the landing balustrading can be taken closer to the newel post and the edge of the stairwell, thus maximising landing space. Where the landing is at right-angles to the stairs (i.e. 90°) it is not necessary to use a quarter turn because you will have a newel post in place.

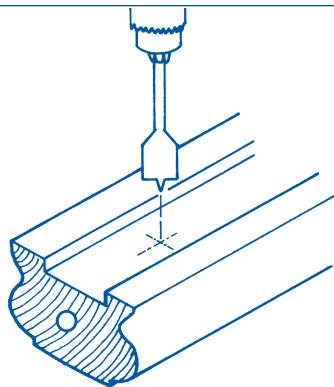
To fit the quarter turn drill a 6mm hole to a depth of 38mm into the centre of the end of the quarter turn which will be secured to

Fig.8



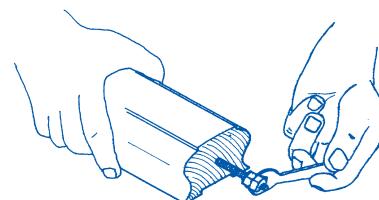
the handrail. **Fig.8.** Drill a 9mm hole 44mm deep into the centre of the handrail. Next, drill a 25mm access hole into the underside of the handrail with the centre of the hole 44mm from the end of the rail. **Fig.9.**

Fig.9



Screw the thread of the bolt into the hole in the quarter turn. **Fig.10.**

Fig.10



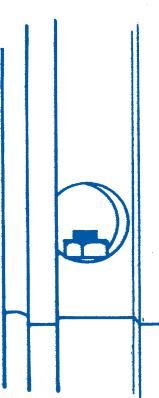
USE TWO NUTS TO CREATE A 'LOCK' SO THAT THE BOLT CAN BE SCREWED IN

Slip the handrail onto the exposed bolt and, via the access hole in the rail, fit the nut. **Fig.11.** Before tightening the nut apply woodworking adhesive to the join between the rail and quarter turn. Align the parts then tighten the nut. Remove excess adhesive squeezed out of the join. Leave for several hours for the adhesive to set, then sand the join for a perfectly smooth finish.

Connect the quarter turn to the newel post with a Newel Post and Handrail Fastener as for normal rail fixings.

At the other end where the handrail meets the wall, use the half newel post. Fit to the

Fig.11

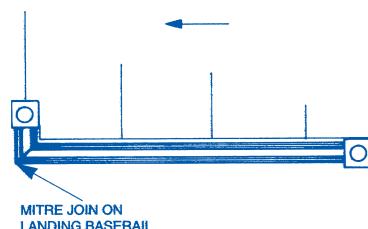


handrail in the same way as to the whole newel post and then cut the base of the newel post to the required length and screw the base to the wall.

Cut the baserail to the required length then drill, countersink, glue and screw the baserail to the floor. Use at least 1½" screws. If using the horizontal turn, you will need to mitre join the baserail. **Fig.12.**

Once the landing handrail and baserail are in position, the landing spindles can be cut to the correct length.

Fig.12



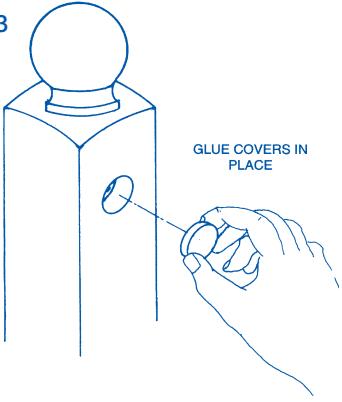
Mark off one spindle and cut to length. Check its accuracy along the landing and cut the remaining spindles to length.

NOTE: Important

Spacing of spindles is achieved with fillets. It is necessary to trim fillets to a maximum 80mm on the landing to comply with safety regulations.

Follow the same procedure as on rake to achieve equal spacing. Equalise spacing between first and last landing spindles. Once achieved, glue and pin spindles and fillets into position. Glue all cover plugs into position. **Fig.13.**

Fig.13



ROUND HANDRAILS

These are suitable for areas where conventional spindles and handrails cannot be used, for example in closed stairways.

Our Hemlock handrails 165476 & 165477 are dual purpose and ideal for use as both handrails and as part of the Axxys Stair Balustrading System.

The brackets are supplied separately in a choice of brass or chrome. A 2.4m rail requires three brackets and a 3.6m rail, four. End caps are also supplied in brass and chrome.

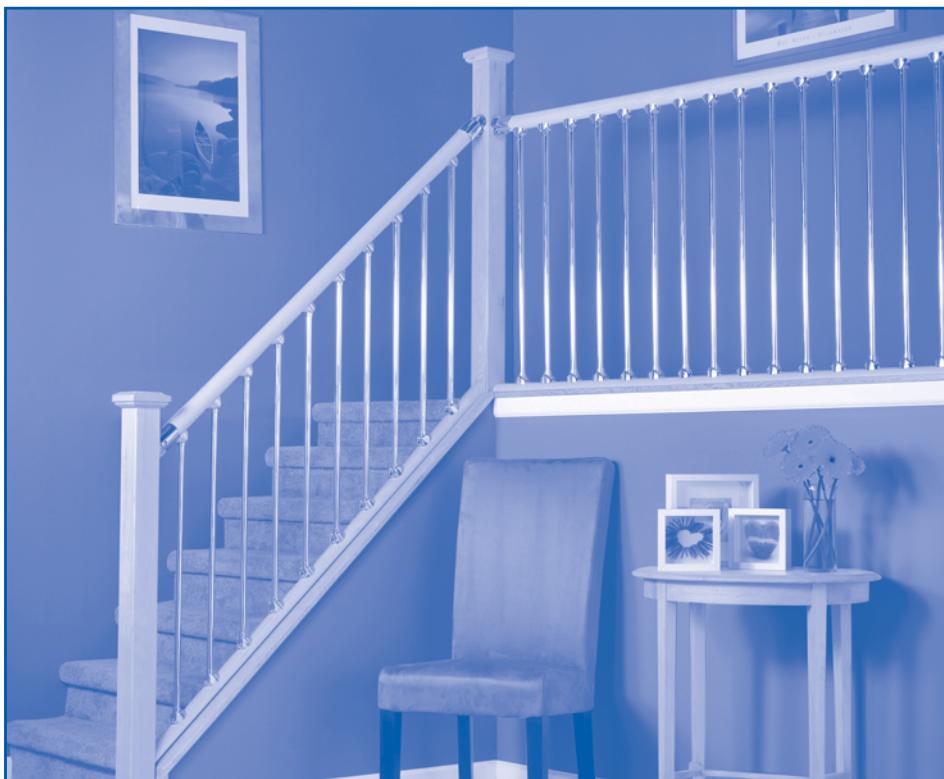
Fixing instructions are supplied with each bracket.

PROCEDURE FOR STAINING & VARNISHING STAIRPARTS

Smooth surfaces down with fine glasspaper. Wipe off all traces of dust. Treat with gloss polyurethane varnish, Quick Drying Woodstain or High Performance Woodstain in the colour of your choice.

HELPLINE

If technical assistance is required call:- 01825 713822 - Week Days day time only.



Wickes Axxys Stair Balustrading

Axxys™ is simple and quick to fit. It is suitable for use in single occupancy domestic situations. It will fit most closed string stair cases with hand rail heights of 900mm on the rake and 900mm on the landings.

Axxys™ can normally be installed using the existing staircase newel. If the existing newels are being used these must be positioned central to the stair string and in front of the riser concerned.

Adjustable Handrail Bracket Fitting Instructions

1. This job is better done by two people. After fitting the newel posts securely, fit the handrail connector onto one end of

the handrail and secure with two 45mm screws provided

2. Fix the newel plate loosely to the handrail connector using the 45mm bolt provided. Ensuring to use the two washers provided. Hold the handrail in place against the newel and mark the cut length at the other end, use another loosely assembled handrail bracket and newel plate as a gauge for the space the bracket will take up. Once the handrail has been cut fix the handrail connector as above with two 45mm screws.

3. Unassemble the newel plates.

4. To fix the adjustable bracket to the newel mark on the newel the centre of the newel plate. Drill a 10mm deep x 25mm diameter hole on the opposite face of

the newel. Then drill an 8mm hole all the way through the newel. Clean out the drill chippings, place the newel plate in place and fix with the 85mm bolt and washer provided. Make sure the newel plate is vertical then fix with two 45mm screws.

5. Offer the handrail into place and secure with 45mm bolt carefully tighten the bolt ensuring not to over tighten.

6. After full installation fit all cover buttons.

Spindle bracket fitting & assembly

1. Cut the chrome tube to the desired length, ensuring not to damage the tube, remove any metal burrs safely.

2. Insert the two tube bungs provided into each end of the tube then slide the two outer brackets onto the tube these are handed please.

3. Slide the two inner tube brackets onto the either end of the tube these must be pushed on fully to the stops, both inner tube brackets must be lined up, fix these brackets with the two 45mm screws provided.

4. Slide the outer spindle bracket over the inner bracket. The spindle is now ready to be installed.

5. Place the spindle into position locating it into the profile of the handrail and base rail. Ensuring that the spindle is vertical fix into position using the 25mm screws provided it is recommended that all the screws are pre-drilled with pilot holes.

When fixing spindles on the rake in a tight position it will be necessary to use a long screwdriver.

Whilst every care has been taken to ensure that the product design, descriptions, specifications and techniques of constructing the products are accurate at the date of printing. Wickes products will inevitably change from time to time and the customer is advised to check that the design, descriptions, specifications and techniques of constructing any of the products described in this leaflet are still valid at the time of purchase or placing an order.

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